WEGA HIFI-TUNER-VORVERSTÄRKER TUNER/CONTROL AMPLIFIER

Mini Modul CT400

Kundendienstanleitung
Service Manual

11/80

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ACHTUNG!
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SAFETY RELATED COMPONENT WARNING!
COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH WEGA PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY WEGA.

TECHNISCHE DATEN

SPECIFICATIONS

Allgemeines		***General***
Halbleiter	16 IC, 4 FET, 63 Transistoren, 70 Dioden, 18 LED	*Semiconductors*
Stromversorgung	220 V, 50 Hz	*Power requirements*
Leistungsaufnahme	10 W	*Power consumption*
Abmessungen (B x H x T)	250 x 71 x 316 mm	*Dimensions (W x H x D)*
Gewicht	2.6 kg (25.5 N)	*Weight*
FM-Teil		***FM tuner section***
Empfangsbereich	87.5 - 108 MHz	*Tuning range*
Empfindlichkeit bei 88, 98, 107.5 MHz (IHF, klirrfaktor 3 %)	< 10 dB	*Usable sensitivity at 88, 98, 107.5 MHz (IHF, THD 3 %)*
Empfindlichkeit bei 26 dB SR (88, 98, 107.5 MHz)	4 ± 4 dB	*Usable sensitivity at 26 dB S/N (88, 98, 107.5 MHz)*
Geräuschspannungsabstand	> 60 dB	*S/N ratio at 60 dB*
Klirrfaktor bei 60 dB	< 0.2 % (98 MHz)	*Total harmonic distortion at 60 dB*
Frequenzgang	30 Hz - 15 kHz	*Frequency response*
Spiegelunterdrückung	> 60 dB (98 MHz)	*Image response ratio*
ZF-Unterdrückung	> 70 dB (98 MHz)	*IF response ratio*
Gleichwellenselektion bei 60 dB	< 2 dB (98 MHz)	*Capture ratio at 60 dB*
Nebenwellenselektion	> 78 dB (98 MHz)	*Spurious response ratio*
AM-Unterdrückung bei 60 dB	> 45 dB (98 MHz)	*Am supression ratio at 60 dB*
Ausweichkanaltrennung bei 40 dB	65 dB ± 5 (98 MHz ± 400 Hz)	*Alternate channel selectivity at 40 dB*
Übersprechdämpfung	> 37 dB (98 MHz)	*Separation*
Mutingschwelle	25 dB ± 6 (98 MHz)	*Muting threshold*
Arretierpegel der Sendersuchlaufautomatik	25 dB ± 6 (98 MHz)	*Auto scan stop level*
AM-Teil		***AM tuner section***
Empfangsbereich	MW 522 - 1.611 kHz LW 137-372 kHz	*Tuning range*
Empfindlichkeit (20 dB S/R)	MW 54 dB ± 5 (603 kHz) 52 dB ± 5 (1.008 kHz) 53 db ± 4 (1.413 kHz) LW 67 dB ± 3 (160 kHz) 64 dB ± 6 (200, 350 kHz)	*Sensitivity (20 dB S/N)*
Fremdspannungsabstand	MW > 34 dB (1.008 kHz, 74 dB) > 40 dB (1.008 kHz, 100 dB) LW > 36 dB (200 kHz, 94 dB) > 40 dB (200 kHz, 104 dB)	*S/N ratio*
Klirrfaktor	MW < 1.3 % (1.008 kHz) LW < 1.3 % (200 kHz)	*Total harmonic distortion*
Spiegelunterdrückung	MW 45 dB + 10 / – 5 (1.008 kHz) LW 44 dB ± 5 (200 kHz)	*Image response ratio*
Trennschärfe	MW 30 dB ± 4 (1.008 kHz)	*Selectivity*
ZF-Unterdrückung	MW 35 dB ± 5 (1.008 kHz) LW 32 dB ± (200 kHz)	*IF response ratio*
Frequenzgang	MW 20 - 2.500 Hz	*Frequency response*
Arretierpegel der Sendersuchlaufautomatik	MW 51 dB ± 9 (1.008 kHz)	*Auto scan stop level*
Vorverstärker-Teil		***Preamplifier section***
Klirrfaktor (40 Hz - 12.5 kHz)	< 0.04 %	*Total harmonic distortion (40 Hz - 12.5 kHz)*
Übersprechdämpfung	> 42 dB (1 kHz)	*Separation*
Kanaltrennung	> 52 dB	*Cross talk*
Geräuschspannungsabstand (IHF, A-Kurve)	PHONO > 75 dB AUX, TAPE > 90 dB	*S/N ratio (IHF, A curve)*
Max. Phonopegel	> 130 mV	*PHONO max. input*
Entzerrung (RIAA)	± 0.7 dB (30 Hz - 15 kHz)	*Equalization curve (RIAA)*
Klangregler		*Tone controls*
Bässe	100 Hz + 8 dB / –10.5 dB / ± 1.5	*Bass*
Höhen	10 kHz + 7 dB / –9.5 dB / ± 1.5	*Treble*
Konturregler (– 40 dB)	100 Hz + 6 dB ± 2 10 kHz + 3 dB ± 1	*Loudness response (– 40 dB)*

Eingänge / ***Inputs***

	Empfindlichkeit ***Sensitivity***	**Impedanz** ***Impedance***
PHONO	2.5 mV	47 kΩ
AUX, TAPE	150 mV	47 kΩ

Ausgänge / ***Outputs***

	Empfindlichkeit ***Sensitivity***	**Impedanz** ***Impedance***
TUNE, TAPE	150 mV	3.3 kΩ
HEADPHONES	0.7 mW	8 Ω
OUTPUT	840 mV ± 50	

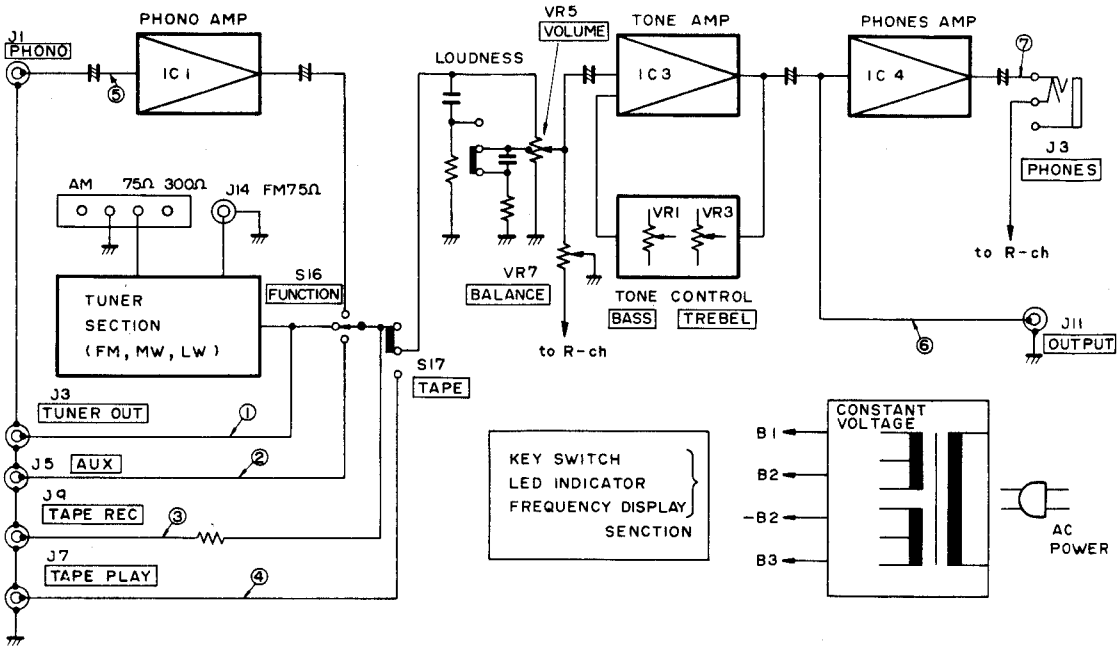
MEMO

TEIL 1

SECTION 1

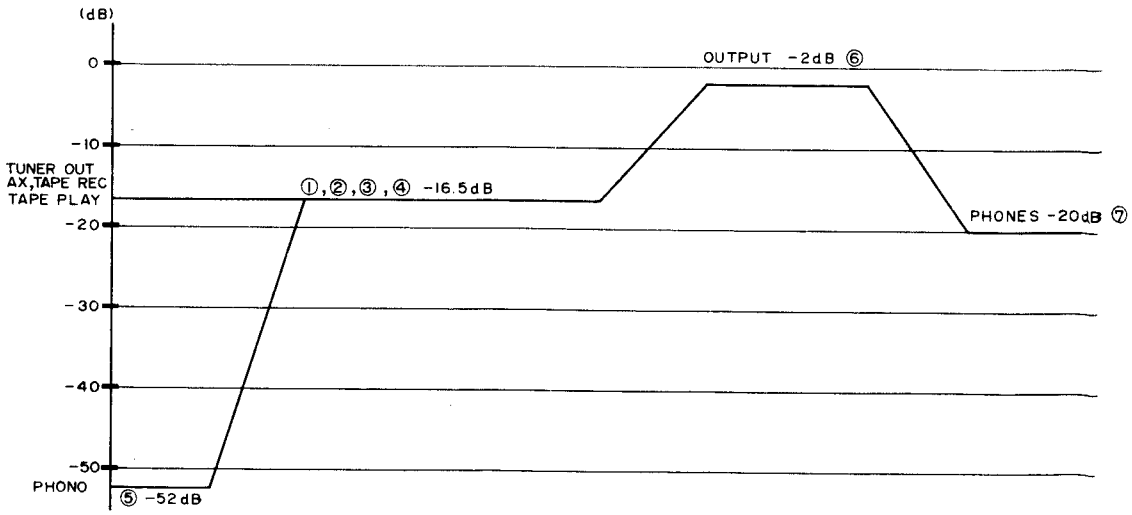
1-1. BLOCKSCHALTBILD

1-1. BLOCK DIAGRAM



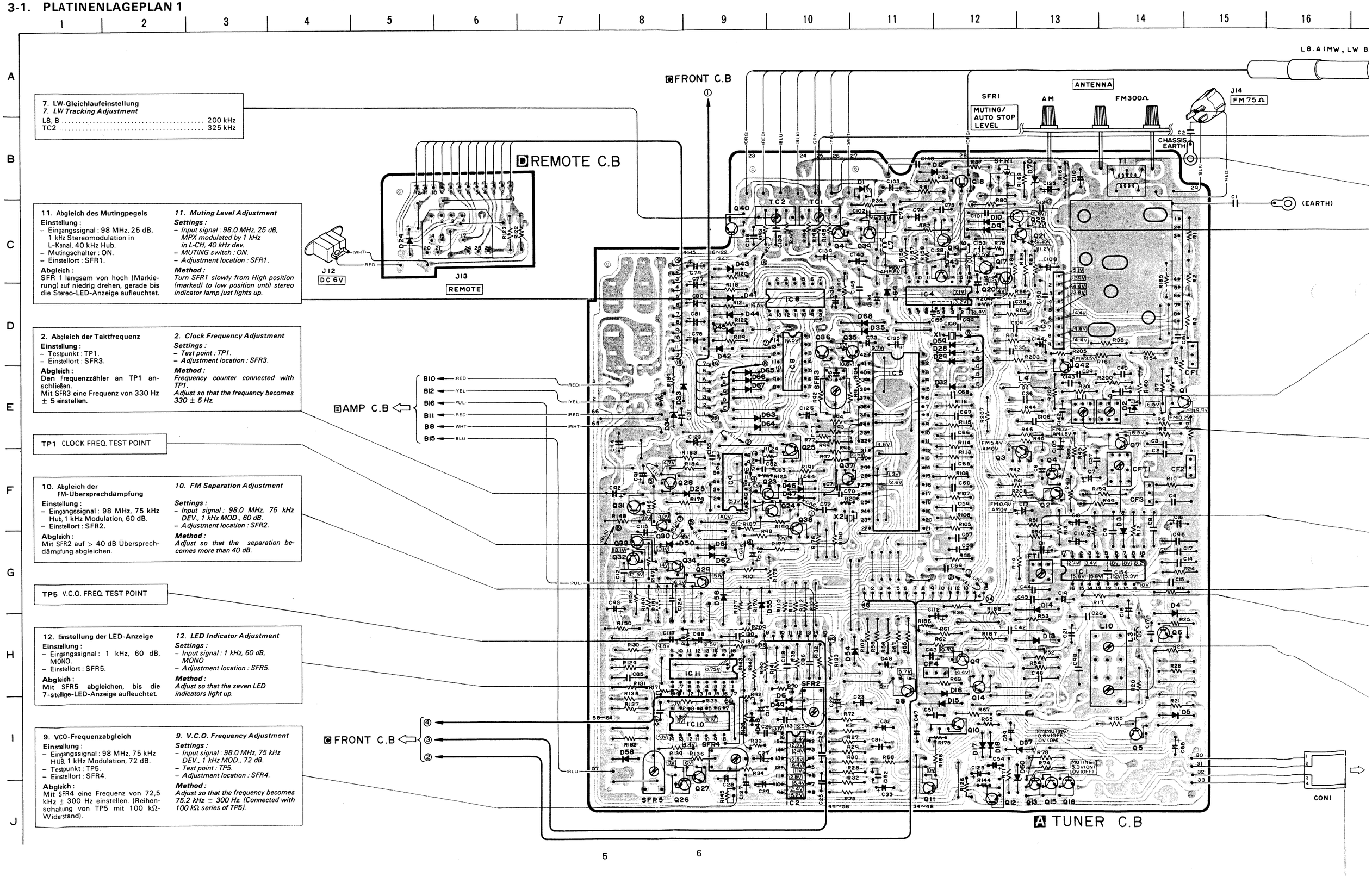
1-2. PEGELDIAGRAMM

1-2. LEVEL DIAGRAM



TEILE 2 & 3
ABGLEICH UND SCHALTBILDER

3-1. PLATINENLAGEPLAN 1


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
A B C D E F G H I J
7. LW-Gleichlaufeinstellung
7. LW Tracking Adjustment
L8, B ..... 200 kHz
TC2 ..... 325 kHz
11. Abgleich des Mutingpegels
Einstellung :
– Eingangssignal : 98 MHz, 25 dB, 1 kHz Stereomodulation in L-Kanal, 40 kHz Hub.
– Mutingschalter : ON.
– Einstellort : SFR1.
Abgleich :
SFR 1 langsam von hoch (Markierung) auf niedrig drehen, gerade bis die Stereo-LED-Anzeige aufleuchtet.
11. Muting Level Adjustment
Settings :
– Input signal : 98.0 MHz, 25 dB, MPX modulated by 1 kHz in L-CH, 40 kHz dev.
– MUTING switch : ON.
– Adjustment location : SFR1.
Method :
Turn SFR1 slowly from High position (marked) to low position until stereo indicator lamp just lights up.
2. Abgleich der Taktfrequenz
Einstellung :
– Testpunkt : TP1.
– Einstellort : SFR3.
Abgleich :
Den Frequenzzähler an TP1 anschließen.
Mit SFR3 eine Frequenz von 330 Hz ± 5 einstellen.
2. Clock Frequency Adjustment
Settings :
– Test point : TP1.
– Adjustment location : SFR3.
Method :
Frequency counter connected with TP1.
Adjust so that the frequency becomes 330 ± 5 Hz.
TP1 CLOCK FREQ. TEST POINT
10. Abgleich der FM-Übersprechdämpfung
Einstellung :
– Eingangssignal : 98 MHz, 75 kHz Hub, 1 kHz Modulation, 60 dB.
– Einstellort : SFR2.
Abgleich :
Mit SFR2 auf > 40 dB Übersprechdämpfung abgleichen.
10. FM Seperation Adjustment
Settings :
– Input signal : 98.0 MHz, 75 kHz DEV., 1 kHz MOD., 60 dB.
– Adjustment location : SFR2.
Method :
Adjust so that the separation becomes more than 40 dB.
TP5 V.C.O. FREQ. TEST POINT
12. Einstellung der LED-Anzeige
Einstellung :
– Eingangssignal : 1 kHz, 60 dB, MONO.
– Einstellort : SFR5.
Abgleich :
Mit SFR5 abgleichen, bis die 7-stellige-LED-Anzeige aufleuchtet.
12. LED Indicator Adjustment
Settings :
– Input signal : 1 kHz, 60 dB, MONO
– Adjustment location : SFR5.
Method :
Adjust so that the seven LED indicators light up.
9. VCO-Frequenzabgleich
Einstellung :
– Eingangssignal : 98 MHz, 75 kHz HUB, 1 kHz Modulation, 72 dB.
– Testpunkt : TP5.
– Einstellort : SFR4.
Abgleich :
Mit SFR4 eine Frequenz von 72,5 kHz ± 300 Hz einstellen. (Reihenschaltung von TP5 mit 100 kΩ-Widerstand).
9. V.C.O. Frequency Adjustment
Settings :
– Input signal : 98.0 MHz, 75 kHz DEV., 1 kHz MOD., 72 dB.
– Test point : TP5.
– Adjustment location : SFR4.
Method :
Adjust so that the frequency becomes 75.2 kHz ± 300 Hz. (Connected with 100 kΩ series of TP5).
FRONT C.B
REMOTE C.B
AMP C.B
TUNER C.B
J12 DC 6V
J13 REMOTE
J14 FM 75Ω
ANTENNA
SFR1 MUTING/ AUTO STOP LEVEL
AM
FM300Ω
CHASSIS EARTH
(EARTH)
CONI
L8.A (MW, LW B
SFR2
SFR3
SFR4
SFR5
IC1
IC2
IC4
IC5
IC8
IC9
IC10
IC11
IFT1
CF1
CF2
CF3
CF4
X1
X2
L10
5
6

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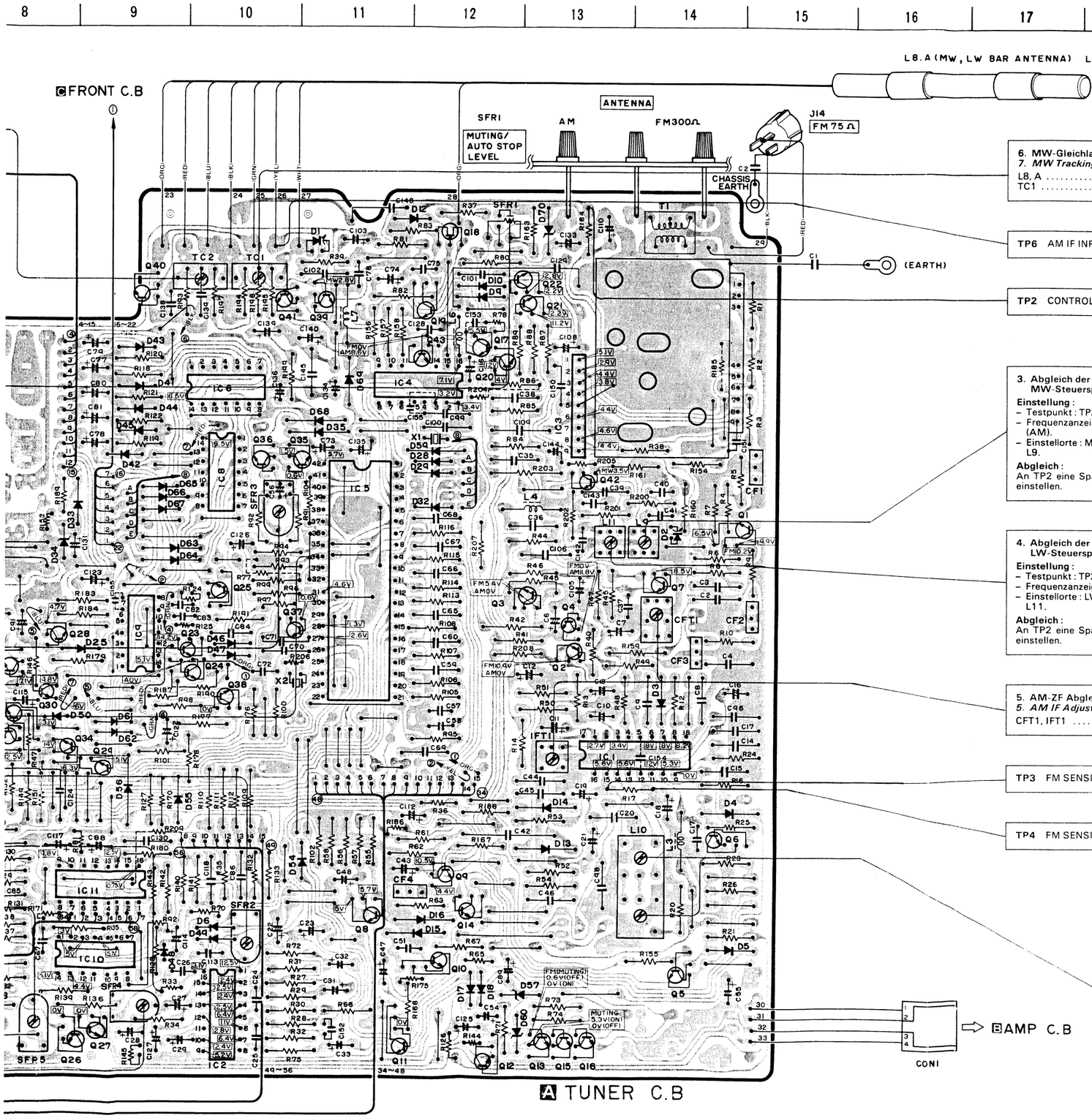
SECTIONS 2 & 3
ADJUSTMENTS AND DIAGRAMS

3-1. MOUNTING DIAGRAM 1



6. MW-Gleichlaufeinstellung
7. MW Tracking Adjustment
L8, A ..... 603 kHz
TC1 ..... 1.413 kHz

TP6 AM IF INPUT

TP2 CONTROL VOLTAGE TEST POINT

3. Abgleich der MW-Steuerspannung
Einstellung :
- Testpunkt : TP2.
- Frequenzanzeige : 1.611 kHz (AM).
- Einstellorte : MW-Schwingspule, L9.

Abgleich :
An TP2 eine Spannung von 23,5 V einstellen.

3. MW Control Voltage Adjustment
Settings :
- *Test point : TP2.*
- *Frequency display : 1.611 kHz (AM).*
- *Adjustment locations : MW OSC coil, L9.*

Method :
Adjust so that the voltage at test point TP2 becomes 23.5 V.

4. Abgleich der LW-Steuerspannung
Einstellung :
- Testpunkt : TP2.
- Frequenzanzeige : 372 kHz
- Einstellorte : LW-Schwingspule, L11.

Abgleich :
An TP2 eine Spannung von 26,5 V einstellen.

4. LW Control Voltage Adjustment
Settings :
- *Test point : TP2.*
- *Frequency display : 372 kHz.*
- *Adjustment locations : LW OSC coil, L11.*

Method :
Adjust so that the voltage at test point TP2 becomes 26.5 V.

5. AM-ZF Abgleich
5. AM IF Adjustment
CFT1, IFT1 ..... 468 kHz

TP3 FM SENSITIVITY ADJ. TEST POINT

TP4 FM SENSITIVITY ADJ. TEST POINT

8. Einstellung der FM-Anzeige
Einstellung :
- Wahlschalter : FM.
- Testpunkt : TP3, 4.
- Eingangssignal : 98 MHz, 75 kHz Hub, 1 kHz Modulation, 72 dB Antenneneingang.
- Einstellorte : L10 A, B.

Abgleich :
(1) Mit L10A an TP3, 4 eine Spannung von 0 V ± 20 mV einstellen.
(2) Mit L10B und IFT im Front-end den Klirrfaktor auf Minimum stellen.

Meßwerte :
- Mono-Klirrfaktor : < 0,2 %.
- Ausgangspegel : 150 mV ± 50.

8. FM Sensitivity Adjustment
Settings :
- *Band selector : FM.*
- *Test point : TP3, 4.*
- *Input signal : 98.0 MHz, 75 kHz DEV., 1 kHz MOD., 72 dB ANT INPUT.*
- *Adjustment locations : L10 A, B.*

Method :
(1) Adjust L10A so that the voltage at test point TP3, 4 becomes 0 ± 20 mV.
(2) Adjust L10B and IFT within front end so that the distortion becomes minimum.

Rated :
- *MONO distortion : Less than 0.2 %.*
- *Output level : 150 ± 50 mV.*

1. Einstellung der FM-Keramikfilterfrequenz
1. FM Ceramic Filter Frequency Adjustment

Farbe des Keramikfilters *Color of ceramic filter*	Mittenfrequenz *Center frequency*	(1) Schaltdraht *(1) Jumper line*	(2) D9	(3) D29
Weiß / *White*	10.75 MHz	×	–	–
Orange / *Orange*	10.725 MHz	–	–	–
Rot / *Red*	10.7 MHz	×	×	×
Blau / *Blue*	10.675 MHz	–	×	×
Schwarz / *Black*	10.65 MHz	×	–	×

–: Schaltdraht oder Diode.
×: Unterbrechung des Schaltdrahtes oder der Diode.

–: jumper line or diode.
×: cut of jumper line or diode.

Anmerkungen :
1) ▒▒ : $+U_B$ (Versorgungsspannung)
2) ▒▒ : Andere Leiterbahnen
3) Messungen ohne Signal mit einem Voltmeter (20 kΩ/V).
( ) bedeutet AM-Empfang.

Notes :
1) ▒▒ : B+ pattern
2) ▒▒ : Other patterns
3) Readings are taken under no-signal conditions with a VOM (20 kΩ/V).
( ) means AM reception.

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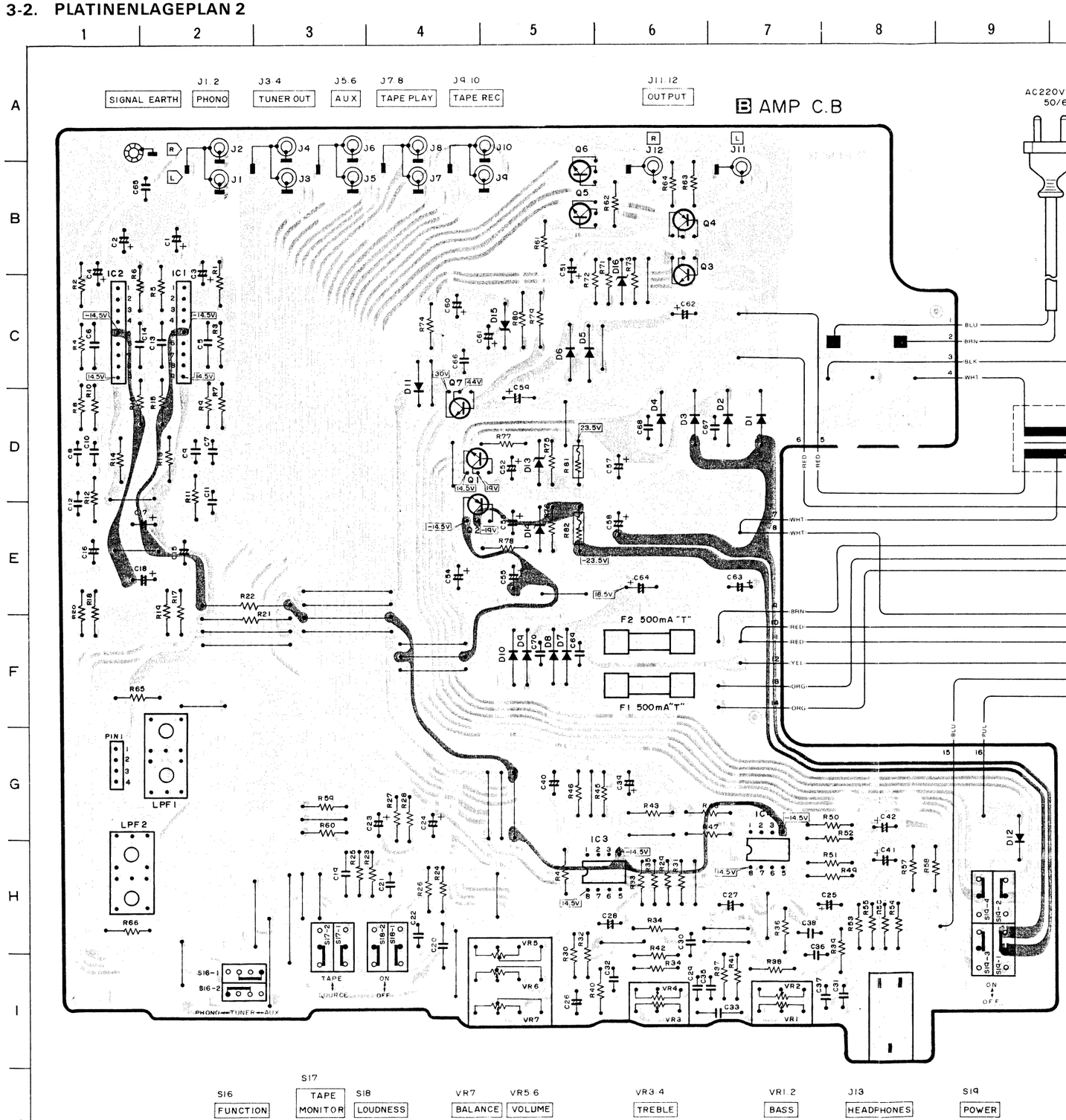
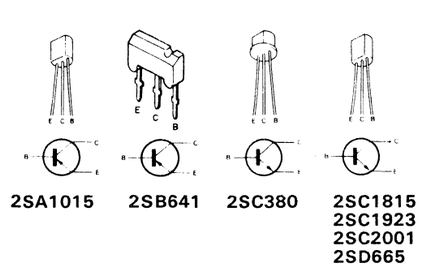
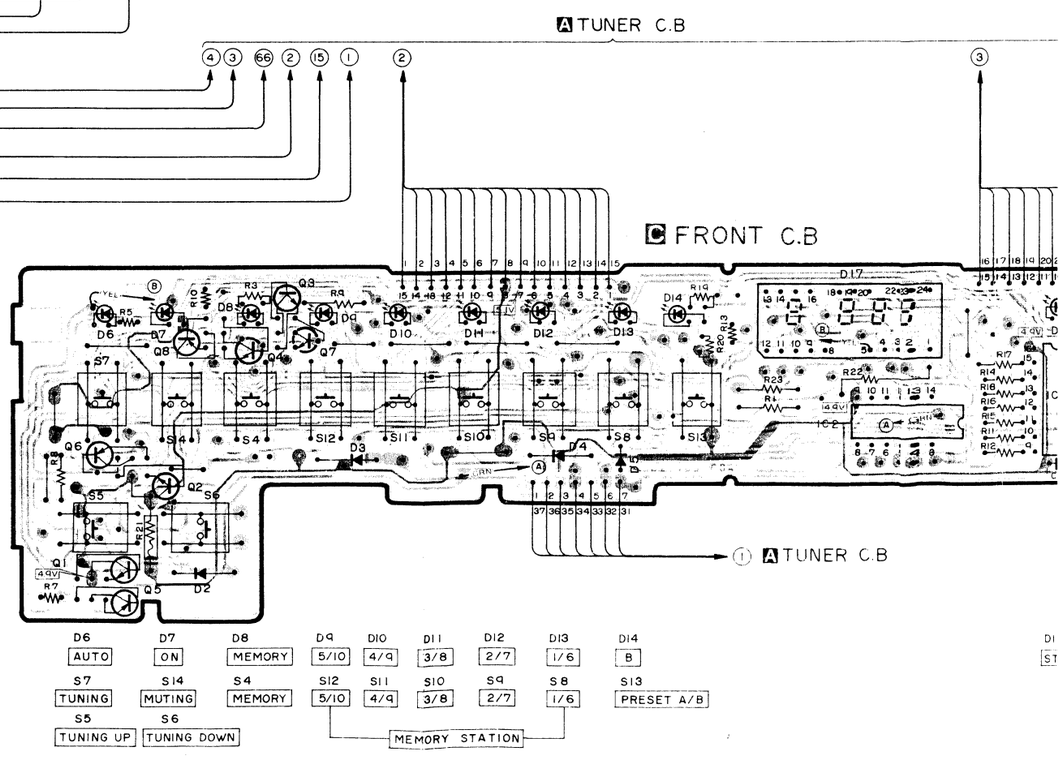
3-2. PLATINENLAGEPLAN 2





Achtung :
Die grau unterlegten und mit diesem Zeichen ⚠ gekennzeichneten Bauteile sind für die Betriebssicherheit wichtig. Nur durch Original – WEGA – Teile ersetzen.

Note :
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.



Anmerkungen :

1) : $+U_B$ (Versorgungsspannung)
2) : $-U_B$ (Versorgungsspannung)
3) : Andere Leiterbahnen
4) Messungen ohne Signal mit einem Voltmeter (20 kΩ/V).

Notes :

1) : B+ pattern
2) : B– pattern
3) : Other patterns
4) Readings are taken under no-signal conditions with a VOM (20 kΩ/V).

Anmerkungen :

1) : $+U_B$ (Versorgungsspannung)
2) : Bestückungsseite
3) : Andere Leiterbahnen

Notes :

1) : B+ pattern
2) : Component side pattern
3) : Other patterns

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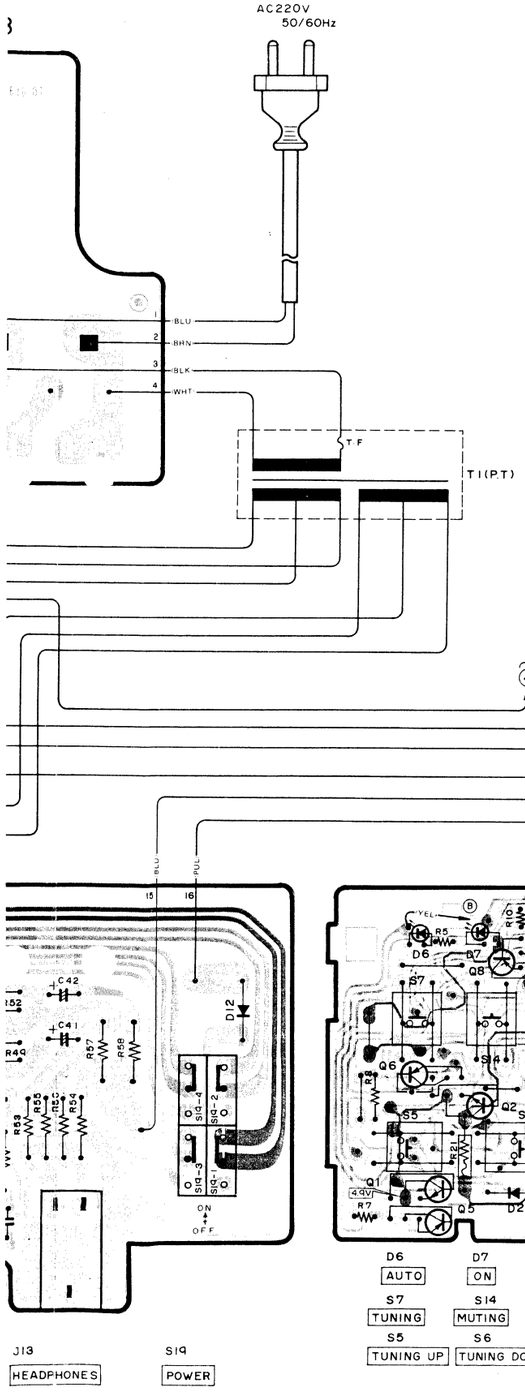
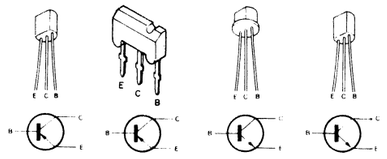
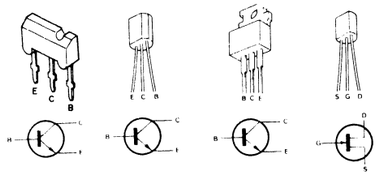
3-2. MOUNTING DIAGRAM 2

8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19







Achtung :
Die grau unterlegten und mit diesem Zeichen ⚠ gekennzeichneten Bauteile sind für die Betriebssicherheit wichtig. Nur durch Original – WEGA – Teile ersetzen.

Note :
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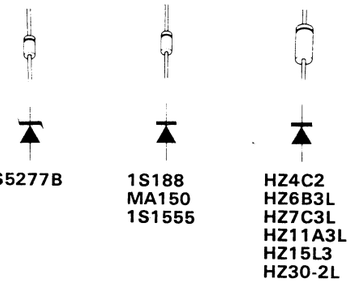

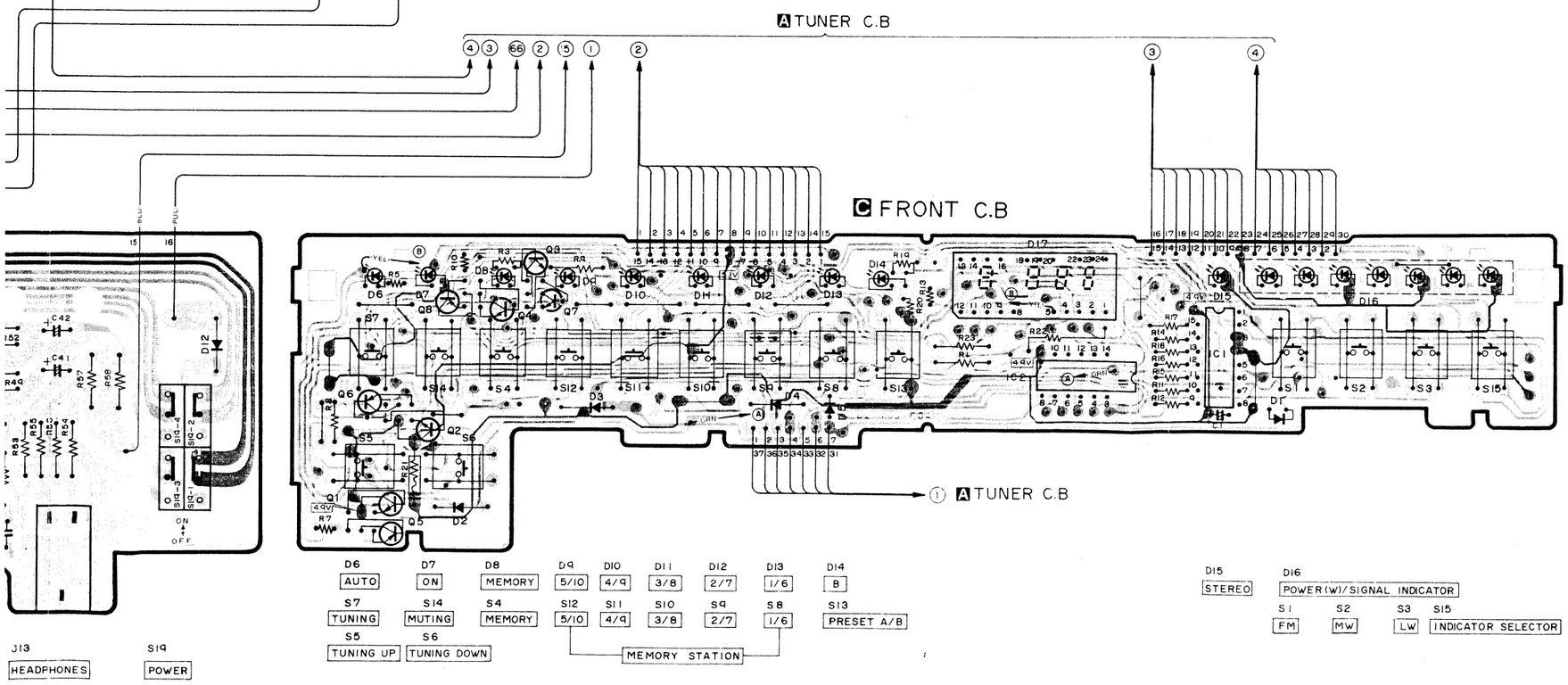

Anmerkungen :
1) ▬ : $+U_B$ (Versorgungsspannung)
2) ▬ : Bestückungsseite
3) ▬ : Andere Leiterbahnen

Notes :
1) ▬ *: B+ pattern*
2) ▬ *: Component side pattern*
3) ▬ *: Other patterns*

Anmerkungen :
1) ——— : $+U_B$ Leiterzug
2) – – – : $-U_B$ Leiterzug
3) ➡ : Signalweg
4) ⇨ : REC-Weg
5) Messungen ohne Signal mit einem Voltmeter (20 kΩ/V).
( ) bedeutet AM-Empfang
6) Alle Widerstände sind in Ohm und ¼ W, wenn nicht anders gekennzeichnet.
Toleranz : ± 5 %.
7) Alle Kondensatoren sind in µF und Keramik, wenn nicht anders angegeben. Spannungen unter 50 V sind nicht angegeben, ausgenommen für Elektrolyt- und Tantalkondensatoren.
Toleranz : ± 5 % (J), 10 % (K).
8) Symbole für Keramikkondensatoren :
: Temperaturausgleich (SL)
: Hochdielektrische Konstante (YY)
: Hochdielektrische Konstante (YW, YP, YZ)
: Keramikhalbleiter
: Temperaturausgleich (SH)
9) Andere Symbole :
(M) : Mylarkondensator
(A) : Alu-Festkörperkondensator
(PP) : Kunststoffkondensator
(BP) : Bipolarer Kondensator
(LL) : Kriechstromfester Kondensator
(T) : Tantalkondensator
: Sicherungswiderstand

Änderungen, die dem technischen Fortschritt dienen, vorbehalten.

Notes :
1) ——— *: B+ bus*
2) – – – *: B– bus*
3) ➡ *Signal path*
4) ⇨ *REC path*
5) Readings are taken under no-signal conditions with a VOM (20 kΩ/V).
( ) means AM reception
6) All resistors are in ohms and ¼ W unless otherwise noted.
Tolerance : ± 5 %.
7) All capacitors are in µF and ceramic unless otherwise noted. 50 WV or less are not indicated, except for electrolytics and tantalum.
Tolerance : ± 5 % (J) or 10 % (K).
8) Ceramic capacitor symbols :
: temperature compensation (SL)
: high dielectric constant system (YY)
: high dielectric constant system (YW, YP, YZ)
: ceramic semiconductor
: temperature compensation (SH)
9) Other symbols :
(M) : Mylar capacitor
(A) : Aluminium solid-state capacitor
(PP) : Polypropylene film capacitor
(BP) : Bi-polarized capacitor
(LL) : Low-leakage capacitor
(T) : Tantalum capacitor
: Fusible resistor

Subject to modifications due to standardization.

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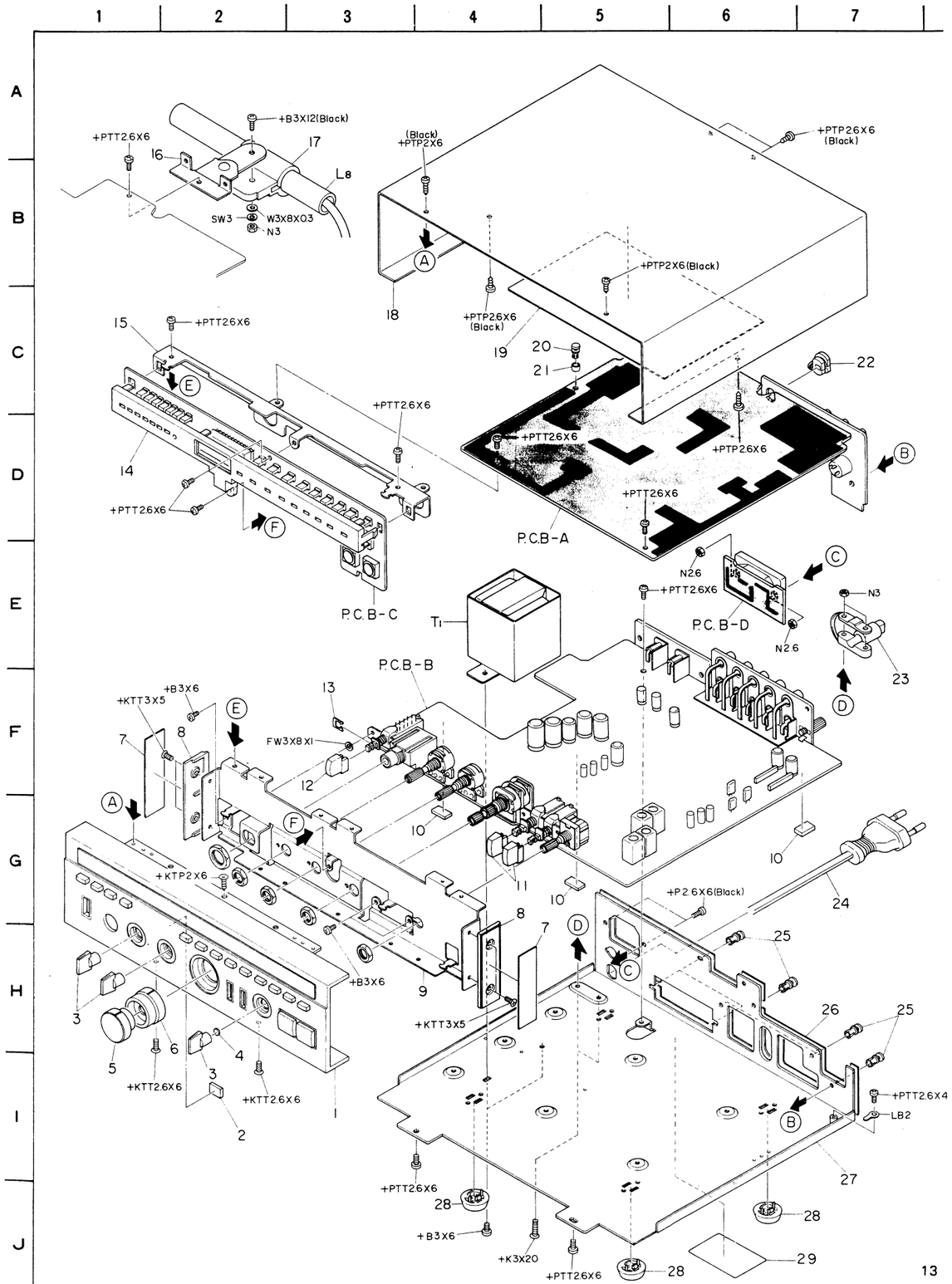
TEIL 4
EXPLOSIONSDARSTELLUNG

SECTION 4
EXPLODED VIEW



MECHANISCHE ERSATZTEILLISTE

MECHANICAL PARTS LIST

Pos. Nr. *Ref. No.*	Sachnr. *Part No.*	Beschreibung *Description*
1-1	09-047-185-01	Front panel W Ass'y
	9-943-008-78	Front panel W
	9-943-008-26	Window
	9-943-008-28	Push-key W
	9-943-008-29	Push-key W (E)
	9-943-008-30	Guide E
	9-943-008-35	Guide, Push-button W (B)
	9-943-005-21	Guide, Push-button W (C)
	9-943-008-38	Spring (B), Plate
	9-943-008-42	Decorative plate, Knob
	9-943-008-70	Guide, 4
	9-943-008-71	Guide, 9
	9-943-008-76	Spring, 4 Plate
	9-943-008-77	Spring, Plate
1-2		S cushion, Display
1-3	9-943-008-41	Knob W
1-4		Spacer
1-5	9-943-008-79	Knob ass'y, Volume
1-6	9-943-008-80	Knob ass'y, Balance
1-7	9-943-005-16	Side sheet
1-8	9-943-005-17	Side panel
1-9	9-943-008-72	Front chassis
1-10		S cushion
1-11	9-943-005-18	Push-button W (B)
1-12	9-943-005-19	Push-button W (C)
1-13	9-943-008-05	Stopper, Rod
1-14	9-943-010-63	Display plate W
1-15	9-943-008-74	Tuner chassis
1-16	9-943-008-75	Ant. holder ass'y
1-17	9-943-009-92	Bar antenna E
1-18	9-943-008-81	Steel cabinet
1-19		Insulation sheet
1-20	9-943-009-69	Nylon rivet
1-21	9-943-009-81	Collar, FR Slide plate
1-22	9-943-010-36	Cord bushing
1-23	9-943-002-25	Holder, AC power cord
1-24	1-551-530-00	AC power cord
1-25	9-943-009-67	Nylon rivet 3-5.5
1-26	9-943-008-82	Jack plate
1-27	9-943-010-02	Amp. chasis
1-28	9-943-005-22	Foot
1-29	9-943-008-83	Spec. plate

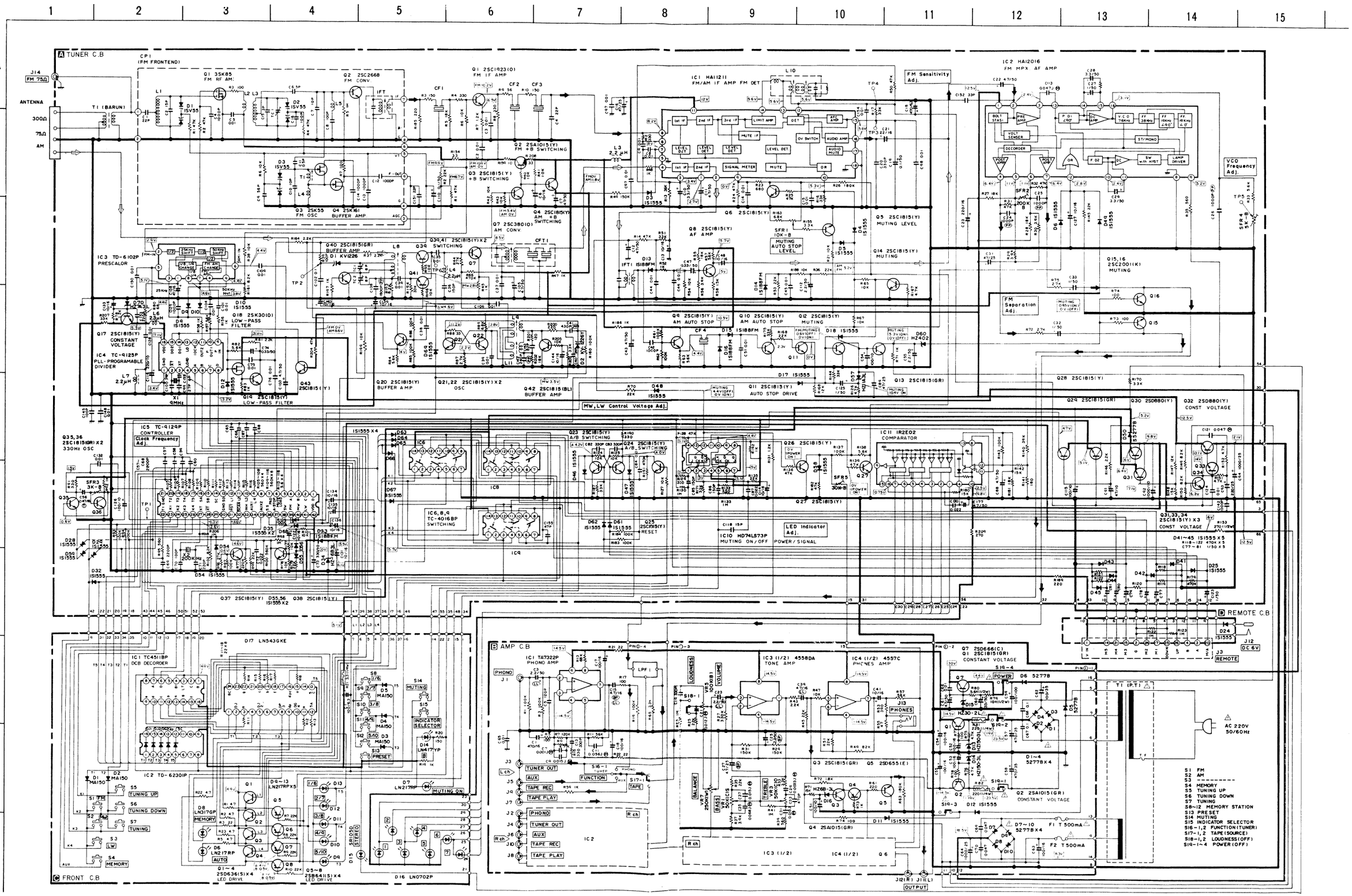
ZUBEHÖR & VERPACKUNGSMATERIAL

ACCESSORIES & PACKING MATERIALS

Pos. Nr. *Ref. No.*	Sachnr. *Part No.*	Beschreibung *Description*
1	9-943-010-07	Printed indive., Packing
2	9-943-009-86	Cushion L, Printed indive.
3	9-943-009-87	Cushion R, Printed indive.
4	9-943-001-33	Poly-vinyl sack (for AC power cord)
5	9-943-009-61	Poly-vinyl sack (for case)
6	9-943-010-06	Instructions booklet
7	9-943-002-87	Guarantee card
8	9-943-000-90	Poly-vinyl sack (for instruction)
9	9-943-010-33	Feeder antenna FM

3-3. FUNKTIONSSCHALTBILD

3-3. SCHEMATIC DIAGRAM



TEIL 5
ELEKTRISCHE ERSATZTEILLISTE

SECTION 5
ELECTRICAL PARTS LIST

Pos. Nr. *Ref. No.*	Sachnr. *Part No.*	Beschreibung *Description*
	HALBLEITER	**SEMICONDUCTORS**
	Transistoren	**Transistors**
Q2,4(PCB B)	8-729-201-53	2SA1015(GR)
Q1,3(PCB B), 13,29 Q35,36,40	8-729-281-53	2SC1815(GR)
Q5,6(PCB B)	9-943-002-81	2SD655E
Q7(PCB B)	8-729-366-69	2SD666C
Q2(PCB A)	8-729-201-52	2SA1015(Y)
Q7(PCB A)	9-943-000-73	2SC380(O)
Q3,4,5,6 (PCB A) Q8,9,10,11 Q11,12,14,17 Q19,20,21,22 Q23,24,25,26 Q27,28,31,33 Q34,37,38,39 Q41,43	8-729-281-52	2SC1815(Y)
Q42	8-729-281-54	2SC1815(BL)
Q1(PCB A)	9-943-000-75	2SC1923(O)
Q15,16	8-729-100-13	2SC2001(K)
Q30,32	8-729-288-03	2SD880(Y)
Q18	8-729-203-00	2SK30(O)
Q5,6,7,8 (PCB C)	9-943-010-37	2SB641(S)
Q1,2,3,4 (PCB C)	9-943-010-38	2SD636(S)
	I.C.'s	**I.C.'s**
IC1,2(PCB B)	9-943-006-31	TA7322P
IC3(PCB B)	8-759-145-58	4558DA
IC4(PCB B)	8-759-145-57	4557C
IC1(PCB A)	8-759-312-11	HA-11211
IC6,8,9	8-759-240-16	MSM4016
IC3(PCB A)	8-759-261-01	TD6102P
IC4(PCB A)	8-759-291-25	TC9125P
IC2(PCB A)	8-759-320-16	HA12016
IC5	9-943-010-28	TC9129
IC10	8-759-374-73	HD74LS73P
IC11	9-943-010-29	IR2E02
IC2(PCB C)	9-943-010-58	IR2403
IC1(PCB C)	8-759-245-11	TC4511BP
	Dioden	**Diodes**
D11,12(PCB B) D3,4,5,6,9 D10,12,17,18 D25,28,29,32 D35,41,42,43 D44,45,46,47 D48,49,52,54 D55,56,59,61 D62,63,64,65 D66,67,67,69 (PCB A)	8-719-815-55	1S1555
D1,2,3,4 D5,6,7,8 D9,10(PCB B) D50	9-943-006-27	S5277B
D13,14(PCB B)	8-719-910-53	HZ15L3
D16(PCB B), 34	8-719-910-66	HZ6B3L
D15(PCB B)	8-719-913-02	HZ30-2L
D70	8-719-910-79	HZ7C3L
D57	8-719-910-13	HZ11A3L
D60	8-719-910-48	HZ4C2
D1,2(PCB A)	8-719-912-30	KV1226Y
D13,14,15,16 D33(PCB A)	8-719-422-21	1S188FM
D17	9-943-010-26	LED, LN543GK,E
D1,2,3,4 D5(PCB C)	9-943-006-24	MA150
D16(PCB C)	9-943-009-83	LED, LN07202P
D6,7,9,10 D11,12,13 (PCB C)	9-943-006-28	LED, LN217RP
D8(PCB C)	9-943-006-34	LED, LN317GP
D14(PCB C)	9-943-010-27	LED, LN417YP
D15(PCB C)	8-719-150-53	LED, SR505D
	SPULEN UND TRAFOS	**COILS AND TRANSFORMERS**
L10	9-943-009-84	Coil, Quand
L9	9-943-009-89	MW, OSC coil
L11	9-943-009-90	LW, OSC coil
L3,4,6,7	9-943-010-10	Choke coil, 2.2μH
IFT1	9-943-010-12	AM IFT (DET)
L8	9-943-009-92	MW-LW bar antenna
T1	⚠9-943-010-03	Power transformer
T1	9-943-010-11	Balun
LPF1,2	9-943-009-82	Low-pass filter
CFT1	9-943-010-14	AM ceramic filter transformer, CFMA-468
	SCHALTER	**SWITCHES**
S17,18	9-943-010-31	Push switch (TAPE, LOUDNESS)
S1,2,3,4 S5,6,7,8 S9,10,11,12 S13,14,15	9-943-009-40	Push switch (METER, LW, MW, FM, A/B, 1/6, 2/7, 3/8, 4/9, 5/10, MEMORY, MUTING, TUNING, UP, DOWN)
S16	9-943-010-32	Rortary switch (FUNCTION)
S19	⚠9-943-010-30	Push switch (POWER)
	LEITERPLATTEN	**PRINTED CIRCUIT BOARDS**
COMBI-PCB	9-943-009-98	Combination circuit board
PCB A		Tuner circuit board
PCB D		Remote circuit board
PCB B	⚠9-943-010-05	Amplifier circuit board
PCB C	9-943-010-59	Front circuit board
	SONSTIGES	**MISCELLANEOUS**
	9-943-007-73	1P, Terminal
J14	9-943-010-34	Jack, 6.3φ (PHONES)
J1,2,3,4 J5,6,7,8 J9,10	9-943-009-93	Jack plate ass'y (PHONO, TUNER, AUX, TAPE)
J11,12	9-943-010-04	Jack plate ass'y (OUTPUT)
J13	9-943-008-38	Connector ass'y (REMOTE)

Pos. Nr. *Ref. No.*	Sachnr. *Part No.*	Beschreibung *Description*
PIN1	9-943-009-47	PIN, 4P
X1	9-943-009-85	Crystal, 9MHz
X2	9-943-009-97	Ceramic resonator
CP1	9-943-009-91	Front end, U
CF1	9-943-010-60	Ceramic filter, HS2GYHZ
CF2,3	9-943-010-61	Ceramic filter, FMMA8H
CF4	9-943-010-15	Ceramic filter, CFM2-468Z
	9-943-009-88	Antenna terminal ass'y (FM, AM)
CON1	9-943-009-94	Connector ass'y 4P
	⚠1-534-530-01	AC power cord
	⚠9-943-002-25	Holder, AC power cord
	9-943-010-36	Cord bushing
	⚠9-943-002-75	Fuse clamp

WIDERSTÄNDE RESISTORS

Alle Widerstandswerte sind in Ohm. Normale 1/4 W-, 1/8 W-, 1/16 W-Widerstände sind nicht aufgeführt. Die Sachnummern für diese Widerstände sind in der Liste auf Seite 19-20 zusammengefaßt.
kΩ : 1000Ω : MΩ : 1000 kΩ.

All resistors are in ohms. Common 1/4 W, 1/8 W, 1/16 W carbon resistors are omitted. Refer to the list on page 19-20 for their part numbers.
*k*Ω : 1000Ω : MΩ : 1000 kΩ.

VR1,2	9-943-010-20	Volume, 50kΩ-C (BASS)
VR3,4	9-943-010-21	Volume, 50kΩ-C (TREBLE)
VR5,6,7	9-943-009-28	Volume, 250kΩ-W, 100kΩ-Bx2 (VOLUME, BALANCE)
SFR1	9-943-010-18	Semi-fixed resistor, 10kΩ-B
SFR2	9-943-010-23	Semi-fixed resistor, 200kΩ-B
SFR3	9-943-010-24	Semi-fixed resistor, 3kΩ-B
SFR4	9-943-010-19	Semi-fixed resistor, 5kΩ-B
SFR5	9-943-010-62	Semi-fixed resistor, 50kΩ-B

KONDENSATOREN CAPACITORS

Alle Kondensatoren sind in μF. Normale Kondensatoren sind nicht aufgeführt. Die Sachnummern für diese Kondensatoren sind in der Liste auf Seite 17-18 zusammengefaßt.

All capacitors are in μF. Common capacitors are omitted. Refer to the lists on pages 17-18 for their part numbers.

TC1	9-943-010-16	8PF	trimmer
TC2	9-943-010-17	15PF	trimmer

Achtung:
Die grau unterlegten und mit diesem Zeichen ⚠ gekennzeichneten Bauteile sind für die Betriebssicherheit wichtig. Nur durch Original – WEGA – Teile ersetzen.

Note:
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

ELEKTROLYTKONDENSATOREN / ELECTROLYTIC CAPACITORS

RATING → : Use the high voltage rated one.

CAP. (μF)	6.3 VOLT.	10 VOLT.	16 VOLT.	25 VOLT.	35 VOLT.	50 VOLT.
	PART No.	PART No.	PART No.	PART No.	PART No.	PART No.
0.47					→	1-121-726-00
1.0					→	1-121-391-00
2.2					→	1-121-450-00
3.3	→	→	→	1-121-392-00	→	1-121-393-00
4.7	→	→	→	1-121-395-00	→	1-121-396-00
10	→	→	1-121-651-00	1-121-398-00	→	1-121-738-00
22	→	→	1-121-479-00	1-121-480-00	1-121-662-00	1-121-152-00
33	→	→	1-121-401-00	1-121-404-00	1-121-652-00	1-121-405-00
47	→	1-121-352-00	1-121-409-00	1-121-410-00	1-121-653-00	1-121-411-00
100	→	1-121-414-00	1-121-415-00	1-121-416-00	1-121-357-00	1-121-417-00
220	1-121-419-00	1-121-420-00	1-121-421-00	1-121-422-00	1-121-261-00	1-121-423-00
330	1-121-751-00	1-121-805-00	1-121-521-00	1-121-654-00	1-121-655-00	1-121-656-00
470	1-121-424-00	1-121-425-00	1-121-426-00	1-121-733-00	1-121-361-00	1-121-810-00
1000	–	1-121-736-00	1-121-245-00	1-121-657-00	1-121-388-00	1-123-061-00
2200	1-121-658-00	1-121-659-00	1-121-660-00	1-123-067-00	1-121-984-00	–
3300	1-121-661-00	1-123-075-00	1-123-071-00	–	–	–

CAP. (μF)	100 VOLT.	160 VOLT.	250 VOLT.	350 VOLT.
	PART No.	PART No.	PART No.	PART No.
0.47	–	–	–	–
1.0	1-123-249-00	1-123-252-00	1-123-003-00	1-121-168-00
2.2	1-123-250-00	1-123-026-00	–	1-123-028-00
3.3	1-121-995-00	–	1-123-004-00	1-123-006-00
4.7	1-123-255-00	1-121-246-00	1-121-759-00	1-123-007-00
10	1-121-126-00	1-121-999-00	1-123-254-00	1-123-008-00
22	1-121-996-00	1-123-253-00	1-123-005-00	1-123-022-00
33	1-121-997-00	1-121-757-00	–	–
47	1-123-251-00	1-121-919-00	–	–
100	1-123-084-00	–	–	–

KERAMIKKONDENSATOREN / CERAMIC CAPACITORS

RATING

CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (pF)	50 VOLT.	CAP. (μF)	50 VOLT.
	PART No.		PART No.		PART No.		PART No.
0.5	1-101-837-00	22	1-102-959-00	150	1-101-361-00	0.001	1-102-074-00
0.75	1-101-586-00	24	1-102-960-00	160	1-101-367-00	0.0012	1-102-118-00
1.0	1-102-934-00	27	1-102-961-00	180	1-102-976-00	0.0015	1-102-119-00
1.5	1-101-576-00	30	1-102-962-00	200	1-102-977-00	0.0018	1-102-120-00
2.0	1-102-935-00	33	1-102-963-00	220	1-102-978-00	0.0022	1-102-121-00
3	1-102-936-00	36	1-102-964-00	240	1-102-979-00	0.0027	1-102-122-00
4	1-102-937-00	39	1-102-965-00	270	1-102-980-00	0.0033	1-102-123-00
5	1-102-942-00	43	1-102-966-00	300	1-102-981-00	0.0039	1-102-124-00
6	1-102-943-00	47	1-101-880-00	330	1-102-820-00	0.0047	1-102-125-00
7	1-102-944-00	51	1-101-882-00	360	1-102-821-00	0.0056	1-102-126-00
8	1-102-945-00	56	1-101-884-00	390	1-102-822-00	0.0068	1-102-127-00
9	1-102-946-00	62	1-101-886-00	430	1-102-823-00	0.0082	1-102-128-00
10	1-102-947-00	68	1-101-888-00	470	1-102-824-00	0.01	1-102-129-00
11	1-102-948-00	75	1-101-890-00	510	1-101-059-00	0.022	1-101-005-00
12	1-102-949-00	82	1-102-971-00	560	1-102-115-00	0.047	1-101-006-00
13	1-102-950-00	91	1-102-972-00	680	1-102-116-00		
15	1-102-951-00	100	1-102-973-00	820	1-102-117-00		
16	1-102-952-00	110	1-102-815-00				
18	1-102-953-00	120	1-102-816-00				
20	1-102-958-00	130	1-101-081-00				

0.001μF = 1,000pF

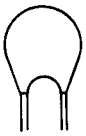
KERAMIK (HALBLEITER) KONDENSATOREN
CERAMIC (SEMI-CONDUCTOR) CAPACITORS

RATING → : Use the high voltage rated one.

CAP. (μF)	25 VOLT.	50 VOLT.	CAP. (μF)	25 VOLT.	50 VOLT.
	PART No.	PART No.		PART No.	PART No.
0.001	→	1-161-039-00	0.018	1-161-016-00	1-161-054-00
0.0012	→	1-161-040-00	0.022	1-161-017-00	1-161-055-00
0.0015		1-161-041-00	0.027	1-161-018-00	1-161-056-00
0.0018		1-161-042-00	0.033	1-161-019-00	1-161-057-00
0.0022		1-161-043-00	0.039	1-161-010-00	1-161-058-00
0.0027	→	1-161-044-00	0.047	1-161-021-00	1-161-059-00
0.0033	→	1-161-045-00	0.056	→	1-161-060-00
0.0039	→	1-161-046-00	0.068	→	1-161-061-00
0.0047	→	1-161-047-00	0.082	1-161-024-00	1-161-062-00
0.0056	→	1-161-048-00	0.1	1-161-025-00	1-161-063-00
0.0068	→	1-161-049-00			
0.0082	1-161-012-00	1-161-050-00			
0.01	1-161-013-00	1-161-051-00			
0.012	→	1-161-052-00			
0.015	1-161-015-00	1-161-053-00			

MYLARKONDENSATOREN / MYLAR CAPACITORS

CAP. (µF)	RATING 50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (µF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.	CAP. (µF)	50 VOLT. PART No.	100 VOLT. PART No.	200 VOLT. PART No.
0.001	1-108-227-00	1-108-365-00	1-108-409-00	0.01	1-108-239-00	1-108-377-00	1-108-421-00	0.1	1-108-251-00	1-108-389-00	1-108-433-00
0.0012	1-108-351-00	1-108-366-00	1-108-410-00	0.012	1-108-357-00	1-108-378-00	1-108-422-00	0.12	1-108-363-00	1-108-390-00	1-108-434-00
0.0015	1-108-228-00	1-108-367-00	1-108-411-00	0.015	1-108-240-00	1-108-379-00	1-108-423-00	0.15	1-108-252-00	1-108-391-00	1-108-435-00
0.0018	1-108-352-00	1-108-368-00	1-108-412-00	0.018	1-108-358-00	1-108-380-00	1-108-424-00	0.18	1-108-364-00	1-108-392-00	1-108-436-00
0.0022	1-108-230-00	1-108-369-00	1-108-413-00	0.022	1-108-242-00	1-108-381-00	1-108-425-00	0.22	1-108-254-00	1-108-393-00	1-108-437-00
0.0027	1-108-353-00	1-108-370-00	1-108-414-00	0.027	1-108-359-00	1-108-382-00	1-108-426-00	0.27	1-108-854-00	–	–
0.0033	1-108-232-00	1-108-371-00	1-108-415-00	0.033	1-108-244-00	1-108-383-00	1-108-427-00	0.33	1-108-855-00	–	–
0.0039	1-108-354-00	1-108-372-00	1-108-416-00	0.039	1-108-360-00	1-108-384-00	1-108-428-00	0.39	1-108-856-00	–	–
0.0047	1-108-234-00	1-108-373-00	1-108-417-00	0.047	1-108-246-00	1-108-385-00	1-108-429-00	0.47	1-108-857-00	–	–
0.0056	1-108-355-00	1-108-374-00	1-108-418-00	0.056	1-108-361-00	1-108-386-00	1-108-430-00				
0.0068	1-108-237-00	1-108-375-00	1-108-419-00	0.068	1-108-249-00	1-108-387-00	1-108-431-00				
0.0082	1-108-356-00	1-108-376-00	1-108-420-00	0.082	1-108-362-00	1-108-388-00	1-108-432-00				

TANTALKONDENSATOREN  TANTALUM CAPACITORS

CAP. (µF)	RATING → : Use the high voltage rated one. 3.15 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	25 VOLT. PART No.	35 VOLT. PART No.
0.01					→	→	1-131-396-00
0.015						→	1-131-397-00
0.022						→	1-131-398-00
0.033						→	1-131-399-00
0.047						→	1-131-400-00
0.068					→	→	1-131-401-00
0.1					→	→	1-131-402-00
0.15					→	→	1-131-403-00
0.22					→	→	1-131-404-00
0.33					→	1-131-409-00	1-131-405-00
0.47	–	–	–	–	1-131-412-00	→	1-131-406-00
0.68	–	–	–	1-131-415-00	→	1-131-410-00	1-131-407-00
1.0	–	–	1-131-418-00	–	1-131-413-00	→	1-131-408-00
1.5	–	1-131-421-00	–	1-131-416-00	→	1-131-411-00	1-131-348-00
2.2	1-131-424-00	–	1-131-419-00	–	1-131-414-00	1-131-355-00	1-131-349-00
3.3	–	1-131-422-00	–	1-131-417-00	1-131-362-00	1-131-356-00	1-131-350-00
4.7	1-131-425-00	–	1-131-420-00	1-131-369-00	1-131-363-00	1-131-357-00	1-131-351-00
6.8	–	1-131-423-00	1-131-376-00	1-131-370-00	1-131-364-00	1-131-358-00	1-131-352-00
10	1-131-426-00	1-131-383-00	1-131-377-00	1-131-371-00	1-131-365-00	1-131-359-00	1-131-353-00
15	1-131-390-00	1-131-384-00	1-131-378-00	1-131-372-00	1-131-366-00	1-131-360-00	–
22	1-131-391-00	1-131-385-00	1-131-379-00	1-131-373-00	1-131-367-00		
33	1-131-392-00	1-131-386-00	1-131-380-00	1-131-374-00			
47	1-131-393-00	1-131-387-00	1-131-381-00	–			
68	1-131-394-00	1-131-388-00	–	–			
100	1-131-395-00	–	–	–			

TANTALKONDENSATOREN TANTALUM CAPACITORS

CAP. (µF)	RATING 3 VOLT. PART No.	6.3 VOLT. PART No.	10 VOLT. PART No.	16 VOLT. PART No.	20 VOLT. PART No.	35 VOLT. PART No.
0.033						1-131-273-00
0.047						1-131-274-00
0.068						1-131-275-00
0.1						1-131-276-00
0.15						1-131-277-00
0.22			–	–	1-131-262-00	1-131-278-00
0.33			–	–	1-131-263-00	1-131-279-00
0.47			1-131-169-00	–	1-131-264-00	1-131-280-00
0.68			–	1-131-258-00	1-131-265-00	1-131-281-00
1.0			1-131-254-00	–	1-131-266-00	1-131-282-00
1.5		1-131-250-00	–	–	1-131-267-00	1-131-283-00
2.2		–	–	1-131-259-00	1-131-268-00	1-131-284-00
3.3		–	1-131-255-00	–	1-131-269-00	–
4.7		1-131-251-00	1-131-171-00	–	1-131-270-00	–
6.8		–	–	1-131-260-00	1-131-271-00	–
10	–	–	1-131-256-00	–	1-131-272-00	–
15		1-131-252-00	–	1-131-261-00		
22		–	1-131-257-00	–		
33	1-131-176-00	1-131-253-00	1-131-173-00	–		
47	1-131-288-00	1-131-174-00	–	–		
100	1-131-177-00					

SCHIWID — 1/16 WATT — CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	—	91	1-210-354-00	620	1-210-367-00	4.3k	1-209-772-00	30k	1-210-380-00	200k	1-210-839-00
2.2	—	15	—	100	1-210-355-00	680	1-210-106-00	4.7k	1-209-773-00	33k	1-210-381-00	220k	1-210-840-00
2.4	—	16	—	110	1-210-356-00	750	1-210-107-00	5.1k	1-209-774-00	36k	1-210-394-00	240k	—
2.7	—	18	1-211-688-00	120	1-210-357-00	820	1-210-108-00	5.6k	1-209-775-00	39k	1-210-382-00	270k	1-210-841-00
3.0	—	20	—	130	1-210-358-00	910	1-210-368-00	6.2k	1-209-776-00	43k	1-210-383-00	300k	—
3.3	—	22	—	150	1-210-102-00	1.0k	1-204-122-00	6.8k	1-209-777-00	47k	1-210-384-00	330k	1-210-842-00
3.6	—	24	—	160	1-210-359-00	1.1k	1-210-369-00	7.5k	1-209-778-00	51k	1-210-385-00	360k	—
3.9	—	27	—	180	1-210-360-00	1.2k	1-209-765-00	8.2k	1-209-779-00	56k	1-210-386-00	390k	1-210-843-00
4.3	—	30	1-210-845-00	200	1-210-361-00	1.3k	1-210-370-00	9.1k	1-209-780-00	62k	1-210-387-00	430k	—
4.7	—	33	1-210-846-00	220	1-210-362-00	1.5k	1-209-766-00	10k	1-209-781-00	68k	1-210-388-00	470k	1-210-844-00
5.1	—	36	1-210-847-00	240	1-209-762-00	1.6k	1-210-371-00	11k	1-210-374-00	75k	1-210-389-00	510k	—
5.6	—	39	1-210-848-00	270	1-210-363-00	1.8k	1-209-878-00	12k	1-210-111-00	82k	1-210-390-00	560k	1-211-695-00
6.2	—	43	1-210-849-00	300	1-210-364-00	2.0k	1-209-767-00	13k	1-210-375-00	91k	1-210-391-00	620k	—
6.8	—	47	1-210-395-00	330	1-209-763-00	2.2k	1-209-768-00	15k	1-210-112-00	100k	1-210-115-00	680k	1-211-696-00
7.5	—	51	1-210-101-00	360	1-210-103-00	2.4k	1-209-769-00	16k	1-210-376-00	110k	—	750k	—
8.2	—	56	1-210-351-00	390	1-210-365-00	2.7k	1-209-770-00	18k	1-210-113-00	120k	1-210-836-00	820k	1-211-698-00
9.1	—	62	1-210-352-00	430	1-210-366-00	3.0k	1-210-372-00	20k	1-210-377-00	130k	—	910k	—
10	—	68	1-210-353-00	470	1-209-764-00	3.3k	1-204-123-00	22k	1-210-114-00	150k	1-210-837-00	1 M	—
11	—	75	1-210-392-00	510	1-210-104-00	3.6k	1-210-373-00	24k	1-210-378-00	160k	—		
12	—	82	1-210-393-00	560	1-210-105-00	3.9k	1-209-771-00	27k	1-210-379-00	180k	1-210-838-00		

SCHIWID — 1/8 WATT — CARBON RESISTORS

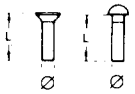
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
2.0	—	13	1-246-821-00	91	1-246-831-00	620	1-246-841-00	4.3k	1-246-851-00	30k	1-246-861-00	200k	1-246-871-00
2.2	1-246-751-00	15	1-246-761-00	100	1-246-771-00	680	1-246-781-00	4.7k	1-246-791-00	33k	1-246-801-00	220k	1-246-811-00
2.4	—	16	1-246-822-00	110	1-246-832-00	750	1-246-842-00	5.1k	1-246-852-00	36k	1-246-862-00	240k	1-247-054-00
2.7	1-246-752-00	18	1-246-762-00	120	1-246-772-00	820	1-246-782-00	5.6k	1-246-792-00	39k	1-246-802-00	270k	1-247-046-00
3.0	—	20	1-246-823-00	130	1-246-833-33	910	1-246-843-00	6.2k	1-246-853-00	43k	1-246-863-00	300k	1-247-055-00
3.3	1-246-753-00	22	1-246-763-00	150	1-246-773-00	1.0k	1-246-783-00	6.8k	1-246-793-00	47k	1-246-803-00	330k	1-247-047-00
3.6	—	24	1-246-824-00	160	1-246-834-00	1.1k	1-246-844-00	7.5k	1-246-854-00	51k	1-246-864-00	360k	1-247-056-00
3.9	1-246-754-00	27	1-246-764-00	180	1-246-774-00	1.2k	1-246-784-00	8.2k	1-246-794-00	56k	1-246-804-00	390k	1-247-048-00
4.3	—	30	1-246-825-00	200	1-246-835-00	1.3k	1-246-845-00	9.1k	1-246-855-00	62k	1-246-865-00	430k	1-247-057-00
4.7	1-246-755-00	33	1-246-765-00	220	1-246-775-00	1.5k	1-246-785-00	10k	1-246-795-00	68k	1-246-805-00	470k	1-247-049-00
5.1	—	36	1-246-826-00	240	1-246-836-00	1.6k	1-246-846-00	11k	1-246-856-00	75k	1-246-866-00	510k	1-247-058-00
5.6	1-246-756-00	39	1-246-766-00	270	1-246-776-00	1.8k	1-246-786-00	12k	1-246-796-00	82k	1-246-806-00	560k	1-247-050-00
6.2	—	43	1-246-827-00	300	1-246-837-00	2.0k	1-246-847-00	13k	1-246-857-00	91k	1-246-867-00	620k	1-247-059-00
6.8	1-246-757-00	47	1-246-767-00	330	1-246-777-00	2.2k	1-246-787-00	15k	1-246-797-00	100k	1-246-807-00	680k	1-247-051-00
7.5	1-246-818-00	51	1-246-828-00	360	1-246-838-00	2.4k	1-246-848-00	16k	1-246-858-00	110k	1-246-868-00	750k	1-247-060-00
8.2	1-246-758-00	56	1-246-768-00	390	1-246-778-00	2.7k	1-246-788-00	18k	1-246-798-00	120k	1-246-808-00	820k	1-247-052-00
9.1	1-246-819-00	62	1-246-829-00	430	1-246-839-00	3.0k	1-246-849-00	20k	1-246-859-00	130k	1-246-869-00	910k	1-247-061-00
10	1-246-759-00	68	1-246-769-00	470	1-246-779-00	3.3k	1-246-789-00	22k	1-246-799-00	150k	1-246-809-00	1 M	1-247-053-00
11	1-246-820-00	75	1-246-830-00	510	1-246-840-00	3.6k	1-246-850-00	24k	1-246-860-00	160k	1-246-870-00		
12	1-246-760-00	82	1-246-770-00	560	1-246-780-00	3.9k	1-246-790-00	27k	1-246-800-00	180k	1-246-810-00		

SCHIWID — ¼ WATT — CARBON RESISTORS

Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00	1.0M	1-246-545-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00	1.1M	1-210-814-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00	1.2M	1-210-815-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00	1.3M	1-210-816-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00	1.5M	1-210-817-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00	1.6M	1-210-818-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00	1.8M	1-210-819-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00	2.0M	1-210-820-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00	2.2M	1-210-821-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00	2.4M	1-244-754-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00	2.7M	1-244-755-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00	3.0M	1-244-756-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00	3.3M	1-244-757-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00	3.6M	1-244-758-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00	3.9M	1-244-759-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00	4.3M	1-244-760-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00	4.7M	1-244-761-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00	5.1M	1-244-762-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00		
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00		
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00		
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00		
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00		
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00		

KLEINTEILE-VERZEICHNIS

Schraube:
Screw:
– P 3 x 10



- L:
- Ø
- Type
- indicates: slotted-head screw.

without indication: cross-recess screw (Phillips type).
bedeutet: Schlitzkopfschraube.
ohne Andeutung: Kreuzschlitzschraube.

HARDWARE NOMENCLATURE

Mutter, Ring, Sicherungsring
Nut, Washer, Retaining ring:

N 3
- Ø
- Ref.

Ref.	Shape Form	Description	Benennung
		SCREWS	**SCHRAUBEN**
P		pan-head screw	Flachkopfschraube
PWH		pan-head screw with washer face	Flachkopfschraube mit Scheibe
PS PSP		pan-head screw with spring washer	Flachkopfschraube mit Federring
PSW PSPW		pan-head screw with spring and flat washers	Flachkopfschraube mit Federring und Scheibe
R		round-head screw	Halbrundschraube
K		flat-countersunk-head screw	Senkschraube
RK		oval-countersunk-head screw	Linsensenkschraube
B		binding-head screw	Klemmkopfschraube
T		truss-head screw	Flachrundschraube
F		flat-fillister-head screw	Zylinderschraube
RF		fillister-head screw	Linsenschraube
BV		braizer-head screw	Rundkopfschraube

Ref.	Shape Form	Description	Benennung
		SELF-TAPPING SCREWS	**TREIBSCHRAUBEN**
TA		self-tapping screw	Treibschraube
PTP		pan-head self-tapping screw	Flachkopftreibschraube
PTPWH		pan-head self-tapping screw with washer face	Flachkopftreibschraube mit Scheibe
PTTWH		pan-head thread-rolling screw with washer face	Flachkopfgewinderoll-schraube mit Scheibe
		SET SCREWS	**GEWINDESTIFTE**
SC		set screw	Gewindestift mit Schlitz
SC		hexagon-socket set screw	Gewindestift mit 6-Kant
		NUT	**MUTTER**
N		nut	Mutter
		WASHERS	**SCHEIBEN**
W		flat washer	Scheibe
SW		spring washer	Federring
LW		internal-tooth lock washer	Zahnscheibe (innen)
LW		external-tooth lock washer	Zahnscheibe (außen)
		RETAINING RINGS	**RINGE**
E		retaining ring E-ring	Haltering-Sicherungsring
G		grip-type retaining ring	Greifring

WEGA

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Mathias-Brüggen-Straße 76
D-5000 Köln 30

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